

Appendix B: Table of Sensitive Species

Name	Status* Federal/ State/CNPS	General Habitat Description	Potential for Occurrence in Project Area.
PLANTS			
heartscale <i>Atriplex cordulata</i>	--/--/1B	Chenopod scrub, meadows and seeps, grassland- sandy, saline or alkaline soils; blooms Apr-Oct.	Closest potential habitat is in iodine bush scrub along Salt Spring, a tributary of Los Banos Reservoir; no potential habitat exists in the project area.
Lost Hills crownscale <i>Atriplex vallicola</i>	--/--/1B	Chenopod scrub, grassland, vernal pools- alkaline soils; blooms Apr-Aug.	Closest potential habitat is in iodine bush scrub along Salt Spring, a tributary of Los Banos Reservoir; no potential habitat exists in the project area.
round-leaved filaree <i>California macrophylla</i>	--/--/1B	Cismontane woodland, grassland- clay soils; blooms Mar-May.	Potential grassland habitat is present on park lands.
chapparal harebell <i>Campanula exigua</i>	--/--/1B	Chapparal- rocky, usually serpentine soils; blooms May-Jun.	No potential habitat exists in the project area.
Lemmon's jewelflower <i>Caulanthus coulteri var. lemmonii</i>	--/--/1B	Pinyon and juniper woodland, grasslands; blooms Mar-Apr.	Potential grassland habitat is present on park lands.
hispid bird's-beak <i>Cordylanthus mollis</i> ssp. <i>hispidus</i>	--/--/1B	Meadows and seeps, playas, grassland- alkali soils; blooms Jun-Sep.	Closest potential habitat is in iodine bush scrub along Salt Spring, a tributary of Los Banos Reservoir; no potential habitat exists in the project area.
Hospital Canyon larkspur <i>Delphinium californicum</i> ssp. <i>interius</i>	--/--/1B	Chaparral openings, cismontane woodland- mesic; blooms Apr-Jun.	No potential habitat exists in the project area.
recurved larkspur <i>Delphinium recurvatum</i>	--/--/1B	Chenopod scrub, cismontane woodland, valley and foothill grassland- alkaline soil; blooms Mar-Jun.	Closest potential habitat is in iodine bush scrub along Salt Spring, a tributary of Los Banos Reservoir; no potential habitat exists in the project area.

Napa western flax <i>Hesperolinon serpentinum</i>	--/--/1B	Chaparral- serpentine soils; blooms May-Jul.	No potential habitat exists in the project area.
arcuate bush mallow <i>Malacothamnus arcuatus</i>	--/--/1B	Chaparral, cismontane woodland; blooms Apr-Sep.	No potential habitat exists in the project area.
Hall's bush mallow <i>Malacothamnus hallii</i>	--/--/1B	Chaparral, coastal scrub; blooms May-Sep.	No potential habitat exists in the project area.
shining navarretia <i>Navarretia nigelliformis</i> ssp. <i>radians</i>	--/--/1B	Cismontane woodland, grassland, vernal pools; blooms May-Jul.	No potential vernal pool habitat exists in the project area.
hairless popcorn flower <i>Plagiobothrys glaber</i>	--/--/1A	Meadows and seeps, marshes and swamps; blooms Mar-May.	No potential habitat exists in the project area. This species is presumed extinct in California.
slender-leaved pondweed <i>Potamogeton filliformis</i>	--/--/2	Marshes and swamps, shallow freshwater habitats; blooms May-Jul.	Potential habitat exists in reservoirs.
rayless ragwort <i>Senecio aphanactis</i>	--/--/2	Chaparral, cismontane woodland, coastal scrub-drying, alkaline flats; blooms Jan-Apr.	No potential habitat exists in the project area
Arburua Ranch jewel-flower <i>Streptanthus insignis</i> ssp. <i>lyonii</i>	--/--/1B	Coastal scrub– sometimes on serpentine soils; blooms Mar-May.	No potential habitat exists in the project area
INVERTEBRATES			
valley elderberry longhorn beetle <i>Desmocerus californicus dimorphus</i>	T/--/--	Elderberry shrubs	Closest known occurrence is 6 miles SE of Los Banos Reservoir. No elderberry shrubs occur in or near the project vicinity.
long-horn fairy shrimp <i>Branchinecta longiantenna</i>	E/--/--	Vernal pools with clear to turbid waters.	No potential vernal pool habitat exists in or near the project area.
vernal pool fairy shrimp <i>Branchinecta lynchi</i>	T/--/--	Vernal pools with clear to turbid waters.	No potential vernal pool habitat exists in or near the project area.
vernal pool tadpole shrimp <i>Lepidurus packardii</i>	E/--/--	Vernal pools with clear to turbid waters.	No potential habitat exists in or near the project area.
FISH			
delta smelt <i>Hypomesus transpacificus</i>	T/T/--	Estuarine, often in the mixing zone of fresh and saline waters of the delta. Spawn in shallow,	Does not occur in habitats affected by this project. Not known from O'neill Forebay or

		fresh or slightly brack-ish water upstream of the mixing zone.	San Luis Reservoir, but there may be potential for arrival through the California Aqueduct. Historically occurred south from the delta to near Tracy in the San Joaquin River.
Central Valley steelhead <i>Oncorhynchus mykiss</i>	T/--/--	Sacramento and San Joaquin rivers and their tributaries.	Does not occur in habitats affected by this project. Not known from O'Neill Forebay or San Luis Reservoir, but there may be potential for arrival through the California Aqueduct.

AMPHIBIANS

California tiger salamander <i>Ambystoma californiense</i>	T/CSC/--	Vernal pools, stock ponds and other seasonal ponds in grasslands for breeding; need upland underground refuges, especially ground squirrel burrows for the majority of the year.	Status unknown but may be present. Undocumented report from Basalt Campground. Potential breeding habitat near Basalt Campground may have been destroyed by feral pigs. Breeding ponds 2 miles south of park boundary and critical habitat 3 miles SW of Basalt Campground. No potential breeding or upland habitat will be impacted.
California red-legged frog <i>Rana aurora draytonii</i>	T/CSC/--	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent vegetation; access to estivation habitat.	Not expected to breed or occur near the project area due to absence of stock ponds and other permanent water free of predatory fish. Critical habitat adjoins the west shore of San Luis Reservoir.
foothill yellow-legged frog <i>Rana boylei</i>	--/CSC/--	Generally restricted to shallow, partly shaded, flowing streams with at least some cobble substrate	Not expected due to absence of suitable habitat in the project area.
western spadefoot <i>Scaphiopus hammondi</i>	--/CSC/--	Vernal pools and seasonal ponds	No potential habitat exists in the project area.

REPTILES

western pond turtle <i>Emys (=Clemmys) marmorata</i>	--/CSC/--	Ponds, marshes, streams, rivers, and irrigation ditches with aquatic vegetation; basking sites and sandy banks or grassy open fields for egg laying also required.	Suitable habitat appears to be present in the eastern portion of Oneill Forebay and known detections have been reported in San Luis and Los Banos Reservoirs. No aquatic
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blunt-nosed leopard lizard <i>Gambelia sila</i>	E/E/--	Sparsely vegetated plains, alkali flats, low foothills, washes and arroyos; seek cover in mammal burrows	habitat and no potential upland habitat will be impacted by the project. Not expected to occur in the project area due to lack of suitable habitat.
San Joaquin whipsnake <i>Masticophis flagellum ruddocki</i>	--/CSC/--	Open, dry habitats, grasslands. Found in valley grassland and saltbush scrub in the San Joaquin Valley.	Status unknown but could occur on park lands. Closest known locations are in Los Banos Valley. Potential upland habitat will not be impacted by this project.
giant garter snake <i>Thamnophis gigas</i>	T/T/--	Prefers freshwater marshes and low-gradient streams; may occur in drainage ditches and irrigation canals.	No potential habitat exists in the project area. Closest known locations are well to the NE in Volta Wildlife Area and Los Banos Creek. The closest potential habitat occurs in Oneill Forebay Wildlife Area across the Forebay to the east of the project site.
BIRDS			
Swainson's hawk <i>Buteo swainsoni</i>	--/T/--	Grasslands, riparian woodlands, and agricultural fields.	Known to occur at project area. Nesting documented at Basalt Campground and Oneill Forebay Wildlife Area.
golden eagle <i>Aquila chrysaetos</i>	--/CSC/--	Open foothill, mountain, desert, and juniper flat areas. Nests in cliff-walled canyons and in large trees in open areas.	Has been detected in the vicinity of San Luis Reservoir. Not expected to nest near the project vicinity.
bald eagle <i>Haliaeetus leucocephalus</i>	PD/E/--	Ocean shores, lake margins and rivers for both nesting and wintering. Nests in large trees within 1 mile of water body.	May occur in low numbers during winter at San Luis Reservoir and Oneill Forebay. Not known to nest at San Luis Reservoir State Recreation Area.
prairie falcon <i>Falco mexicanus</i>	--/CSC/--	Dry, open terrain; nests on open cliffs.	Not expected to occur in the project area. Closest potential nest site is on a cliff above Los Banos Reservoir.
northern harrier <i>Circus cyaneus</i>	--/CSC/--	Grasslands, marshes and agricultural fields; nests on ground in shrubby vegetation usually at marsh edge.	Nesting status not determined but suitable habitat occurs at Oneill Forebay and San Luis Reservoir.
ferruginous hawk <i>Buteo regalis</i>	--/CSC/--	Open grasslands, sagebrush flats, desert scrub, low foothills and agricultural fields.	Status unknown but likely present in winter and during migration.

burrowing owl <i>Athene cunicularia</i>	--/CSC/--	Open grasslands characterized by low growing vegetation; dependent on burrowing mammals.	Status unknown but likely to occur in small numbers during the winter and nesting period on park lands. Known to occur on lands surrounding the project vicinity but no known locations in or near the project area.
white-tailed kite <i>Elanus leucurus</i>	--/FP/--	Open grasslands, meadows, marshes, and agricultural lands close to isolated dense topped trees for nesting.	Likely nests in riparian trees at the base of San Luis Dam.
California horned lark <i>Eremophila alpestris actia</i>	--/CSC/--	Open grasslands and agricultural fields, short grass prairie, alkali flats.	Nesting status unknown but suitable habitat is present on surrounding lands. Known to occur in the project vicinity.
loggerhead shrike <i>Lanius ludovicianus</i>	--/CSC/--	Open country for hunting with fairly dense shrubs and brush for nesting.	Nesting status unknown but suitable habitat is present on surrounding lands. Known to occur in the project vicinity.
tricolored blackbird <i>Agelaius tricolor</i>	--/CSC/--	Freshwater marshes, riparian habitat, and agricultural fields.	Known to nest and forage at San Luis Reservoir, along San Luis dam toe drain vegetation, and at Oneill Forebay Wildlife Area.
MAMMALS			
American badger <i>Taxidea taxus</i>	--/CSC/--	Open, uncultivated areas with friable soils; open shrub, forest and herbaceous habitats.	CNDDDB detection approximately 1 mile from the project area. Potential habitat exists in grasslands adjacent to the project area.
San Joaquin kit fox <i>Vulpes macrotis mutica</i>	E/T/--	Annual grasslands or open grassy areas with scattered shrub component.	Known to occur in small numbers at San Luis Reservoir State Recreation Area. Detections primarily north, east and south of the project area, outside of state recreation area lands. Suitable habitat is present in lands surrounding the project area.
Fresno kangaroo rat <i>Dipodomys nitratooides exilis</i>	E/E/--	Chenopod scrub and grassland on the San Joaquin Valley floor, often with damp soil during portions of the year.	There are currently no known populations in Merced County. Suitable habitat does not occur in the project area.
giant kangaroo rat <i>Dipodomys ingens</i>	E/E/--	Annual grasslands on gentle slopes of <10% with friable, sandy loam soils.	Project location is outside of the historic and much-reduced current range of this species. Suitable habitat does not occur in the project area.

*Status Explanations:

Federal

- E = listed as endangered under the federal Endangered Species Act.
- T = listed as threatened under the federal Endangered Species Act.
- PD= proposed for delisting under the federal Endangered Species Act

State

- E = listed as endangered under the California Endangered Species Act.
- T = listed as threatened under the California Endangered Species Act.
- FP= California Department of Fish and Game Fully Protected Species.
- CSC =California Species of Special Concern (CDFG)

California Native Plant Society

- 1A = presumed extinct in California.
- 1B = considered rare, threatened, or endangered in California and elsewhere.
- 2 = considered rare, threatened, or endangered in California, but more common elsewhere.

Appendix C: Letters of Concurrence

4/2/2007: Dan Shaw is working on getting these

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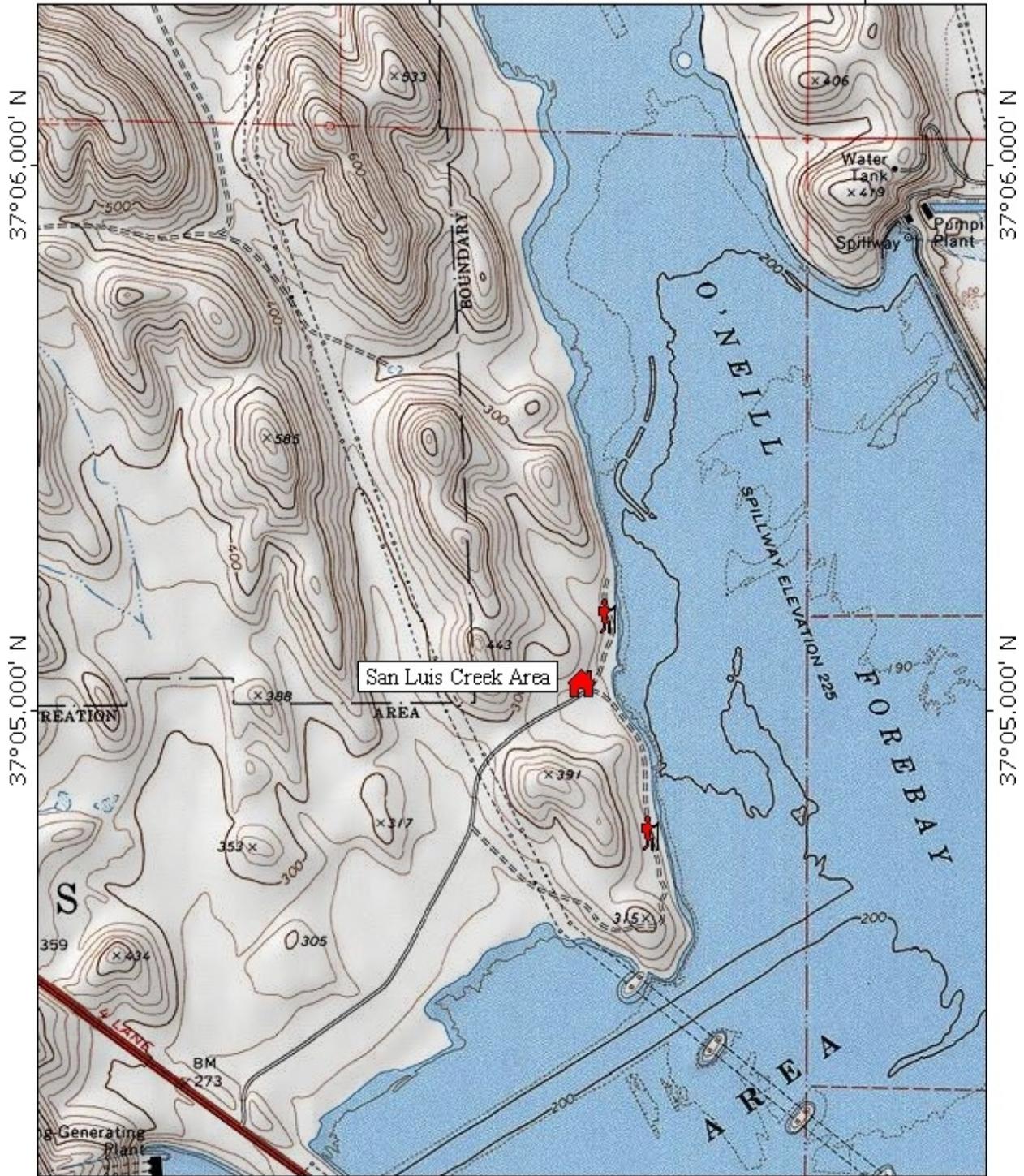
Appendix D: Maps, and Project Plans

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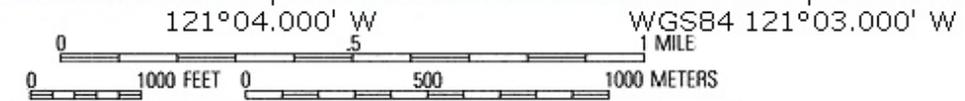
San Luis Reservoir - San Luis Creek Topography

121°04.000' W

WGS84 121°03.000' W



TN * MN
14½°

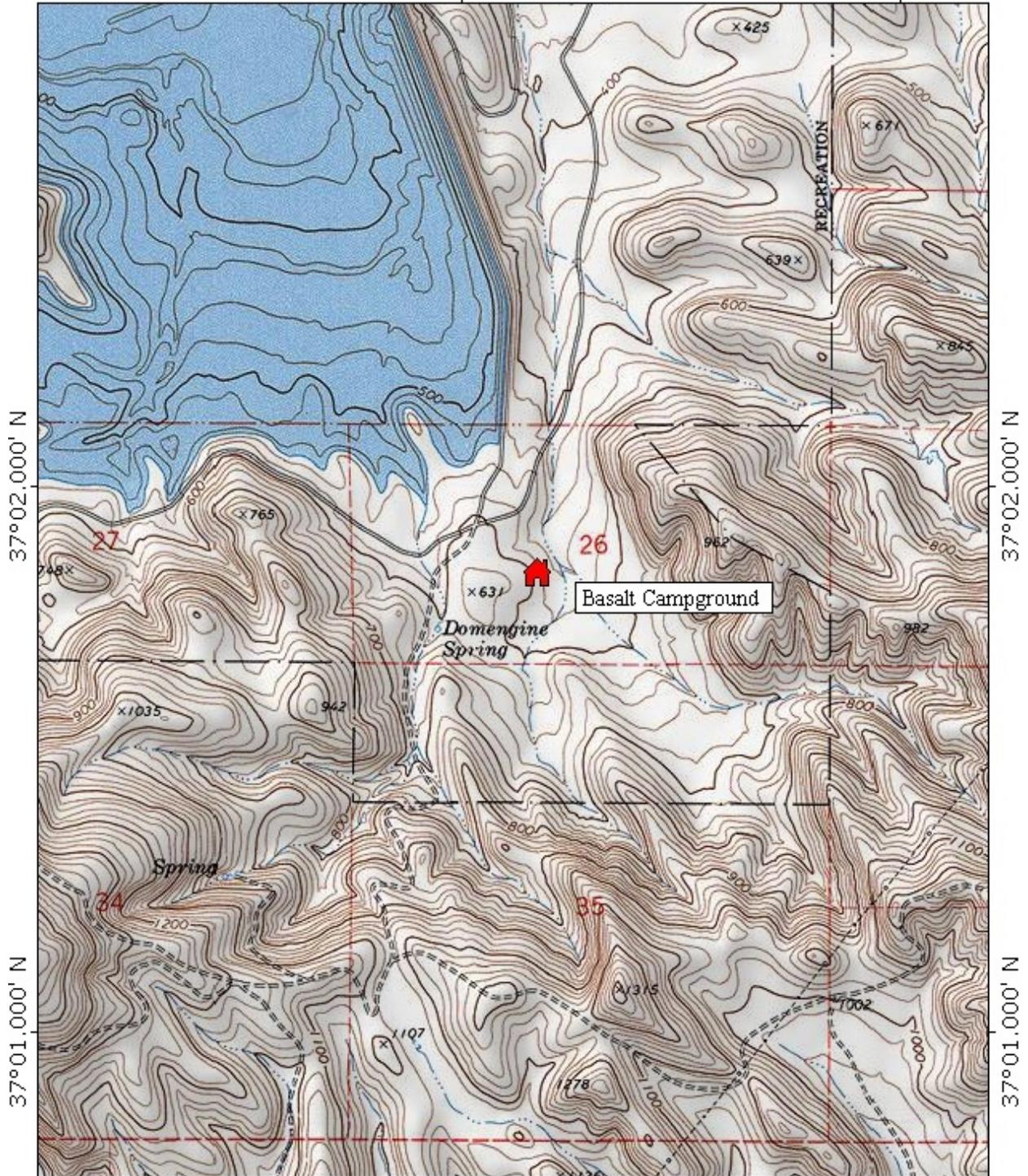


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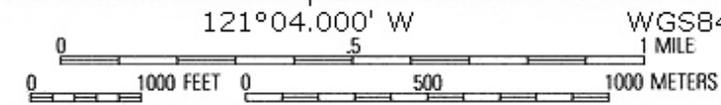
San Luis Reservoir - Basalt Campground Topography

121°04.000' W

WGS84 121°03.000' W



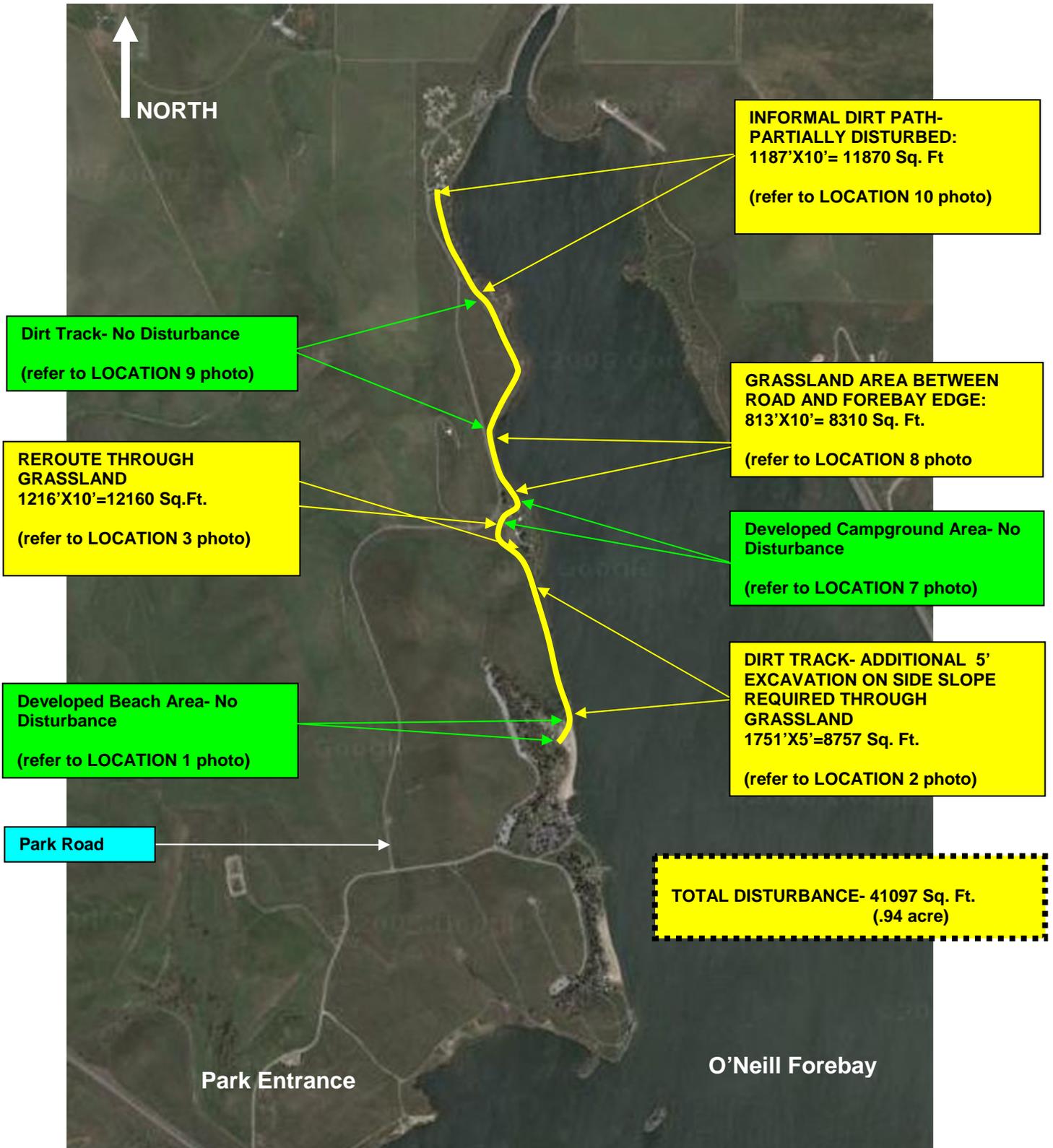
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**San Luis Creek Trail (1.5 Mi. One-Way)
Accessibility Improvements
San Luis Reservoir State Recreation Area**

Habitat Disturbance



San Luis Creek Trail (1.5 Mi. One-Way)
Accessibility Improvements
San Luis Reservoir State Recreation Area
Potential Staging Areas



Appendix E: Cultural Resource Reports

Insert Reports for Final EA